

25X1A

1632Z 13 FEB 65

SECRET

DIRECTOR

25X1A

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ROUTINE

IN 71813

TOR: 1803Z 13 FEB 65

OSA 1-15

25X1A

INFO

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CITE

0258

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TO:

1. ATTN: C.J.K. THE FOLLOWING TASKS WILL BE ACCOMPLISHED DURING THE PERIOD 15 FEB TO 8 MAR:

A. TESTS ON IF WILL CONTINUE USING NEW MODIFICATIONS INCORPORATED BY

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B. ADDITIONAL PREPARATIONS WILL BE COMPLETED FOR GAS CONTAMINANT SENSOR TESTS AND HOT WINDOW TESTS.

C. FOCUSING TESTS ON SYSTEM 1A, 1B AND 1F WILL BE STARTED UPON RECEIPT OF NEW LIGHT SOURCE FOR 100 INCH COLLIMATOR.

2. ADDITIONAL TASKS FOR EACH SYSTEM AS FOLLOWS:

A. SYSTEM 1A.

(1) EXAMINE AND CLEAN UP WIRING.

(2) CHECK FOCUS.

(3) V/H SCALING - INCREASE BY 15 PERCENT AS EXPEDIENT UNTIL FINAL TESTS OF INTERFACE PACKAGE CAN BE DONE.

(4) BANDING - OPERATE WITH INVERTER.

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GROUP 1  
EXCLUDED FROM AUTO-  
MATIC DOWNGRADING  
AND DECLASSIFICATION

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(5) REMOVE SWITCH PREVIOUSLY ADDED TO PUT V/H INTERFACE IN CLOUD POSITION WHEN SYSTEM IS CAGED.

(6) TIMING DOT (TEAR DROP EFFECT):

(7) RECHECK POWER FACTOR.

(8) REDESIGN, CONSTRUCT AND INCORPORATE NEW BOARD 6TB1.

(9) REDESIGN, CONSTRUCT AND INCORPORATE NEW BOARD 4TB1.

(10) LABEL BOTH FUNCTION AND RATING OF ALL FUSES.

(11) TEST GYRO CALIBRATION, ALL AXES.

(12) DETERMINE WHY EXCESSIVE ROLL EXISTS WHILE TRANSPORT IS IN OPERATION (I.E. CHECK BALANCE OF TAKE-UP AND SUPPLY SPOOLS).

(13) REPLACE BEARINGS IN BOTH SCANNERS.

(14) DESIGN NEW BRACKET FOR HOLDING DATA CHAMBER (TO PREVENT METAL FLAKES FROM FALLING ONTO MATERIAL).

(15) CHECK UNCAGING TIME. CENTURY RECORDING ON ATF-93A (REFERENCE NADIR PULSE NUMBER 293) INDICATES THIS TIME IS APPROXIMATELY SIX SECONDS INSTEAD OF INTENDED EIGHT TO TEN SECONDS).

(16) CHECK TENSION ON SCANNER DRIVE BELTS AND ADJUST BY MEANS OF ECCENTRIC PROVIDED ON PULLEY (PLANT WILL SUPPLY INFORMATION ON PROPER TENSION).

(17) SHORTEN INSTRUMENTATION CABLE TO SAME LENGTH AS SYSTEM 1B AND REROUTE TO CONFORM TO SYSTEM 1B.

#### B. SYSTEM 1B.

(1) SHORTEN CABLE TO HEADING MIRROR.

(2) ASCERTAIN IF VEHICLE LINER CABLE CLAMPS ARE IN PLACE.

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- (3) CHECK BANDING - USE INVERTER.
- (4) CLEAN UP 6TB1 AND 4TB1 BOARDS.
- (5) TEST GYRO CALIBRATION, ALL AXES.
- (6) REMOVE 6SA2A INTERNAL BUBBLE LEADS.
- (7) CHECK POWER FACTOR.
- (8) IMPROVE STABILIZATION PERFORMANCE.
- (9) DESIGN NEW BRACKET FOR HOLDING DATA CHAMBER (TO PREVENT METAL FLAKES FROM FALLING ONTO MATERIAL).
- (10) INSTRUMENT PLUS 22 VOLTS ON V/H INTERFACE.
- (11) REPAIR OR REPLACE HELIUM TANK CONNECTOR.
- (12) DETERMINE CAUSE OF FAILURE TO CAGE IN PITCH DURING TEST FOLLOWING ATF-96B.
- (13) CHECK CAUSE OF IMPROPER OPERATION OF AFT SHUTTLE IMC DURING ATF-96B.
- (14) CHECK OPERATION OF SLIT CONTROL SERVO TO DETERMINE WHETHER SLIT JAWS BEING WIDE OPEN AFTER ATF-94B IS ABNORMAL.
- (15) DETERMINE IF DATA CHAMBER OPERATES CORRECTLY ON LATITUDE AND LONGITUDE PULSE INPUTS. LATITUDE INDICATION WAS INCORRECT IN TEST 96B, AND POSSIBLE ALSO LONGITUDE INDICATION.
- (16) DETERMINE CAUSE OF, AND CORRECT, V/H INTERFACE DRIFT.
- (17) CHECK V/H REPEATER SCALING.
- (18) BRING PHASING TO WITHIN PLUS OR MINUS 30 MINUTES.
- (19) REFOCUS - ADD SHIMS AND RECHECK.
- (20) REPLACE UNSERVICEABLE LIGHT SHIELDS WHEN NEW ONES ARRIVE.
- (21) REALIGN HEADING SENSOR.

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(22) MAKE RECORDING OF ROLL INTEGRATOR DRIFT.

(23) ADJUST BY MEANS OF ECCENTRIC PROVIDED ON PULLEY

(PLANT WILL SUPPLY INFORMATION ON PROPER TENSION).

(24) INSTALL REVISED FAST ERECT PACKAGE; CHECK OPERATIONAL RANGE, STABILITY AND PERFORMANCE.

C. SYSTEM IF.

(1) OBTAIN STANDARD TRANSPORT, SYNCHRONIZATION, AND PHASING RESPONSE RECORDINGS.

(2) OBTAIN STANDARD STABILIZATION RESPONSE RECORDING.

(3) OBTAIN STANDARD ANTI-BACKWARD RESPONSE RECORDING.

(4) REPEAT NO. ONE ABOVE WITH VARIATION OF AC POWER WITHIN SPECS.

(5) MEASURE POWER AND POWER FACTOR OF SYSTEM IN STANDBY AND OPERATE.

(6) REPLACE CAGING TIME-DELAY RELAY WITH IMPROVED TYPE ECN NO. 864.

(7) OBTAIN STANDARD IMC RESPONSE CURVES (COMMAND, NADIR AND ERROR SIGNALS).

(8) MEASURE TEMPERATURE OF STABILIZATION.

(9) PROVIDE CALIBRATION DATA FOR CENTURY RECORDERS.

(10) CHECK OPERATE AND TOTAL TIME-USE METERS TO SEE IF FUNCTIONS ARE REVERSED.

(11) ECN NO. 862. ADD CAPACITOR TO IMPROVE FLIM-TO-SCANNER SYNCHRONIZATION.

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(12) FUSE D.C. POWER LINE TO INSTRUMENTATION.

(13) PROVIDE CLAMP FOR OTHER METHOD OF ASSURANCE THAT  
LEADS ON DATA CHAMBER CONNECTORS WILL NOT BE STRAINED.

(14) RECHECK FOCUS FOLLOWING ADDITION OF SHIMS AS PER  
LOG ENTRY OF 3 FEB 65

(15) ADD POTTING AND CLAMP TO Q-6 CONNECTOR.

END OF MESSAGE

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